

WHAT IS CLAIMED IS:

1. A hazardous material storage facility comprising:
an upper floor having openings therethrough;
a lower floor that is sloped from an upper end to an elongated basin;
at least one vent duct disposed beneath the upper floor and adjacent to the lower floor basin, the vent duct including vent openings structured to allow air and fumes to be introduced into the vent duct; and
means for removing the air and fumes in the vent duct therefrom.
2. The facility of Claim 1, wherein the means for removing the air and fumes include at least one exhaust fan.
3. The facility of Claim 2, wherein the elongated basin includes a channel disposed at the bottom of the basin.
4. The facility of Claim 3, wherein said channel is sloped in a direction generally perpendicular to the direction of the lower floor slope.
5. The facility of Claim 4, said means for removing said air and fumes includes at least one vapor sensor disposed adjacent to said at least one exhaust fan.
6. The facility of Claim 5, further including a spill detection system structured to cooperate with said vapor sensor.
7. The facility of Claim 3, wherein said at least one vent duct is disposed above said channel.
8. The facility of Claim 7, wherein said vent openings are disposed on the bottom of the vent duct, facing the channel.
9. The facility of Claim 7, wherein said vent openings are disposed on one or more sides of the vent duct.

10. The facility of Claim 7, said vent duct includes a gate means structured to selectively open and cover the vent openings.

11. The facility of Claim 2, wherein said lower floor includes a sloped floor with two portions, a first sloped portion and a second sloped portion wherein said first and second sloped portions are sloped towards each other whereby said basin is at the vertex of the lower floors.

12. The facility of Claim 11, wherein the elongated basin includes a channel disposed at the bottom of the basin.

13. The facility of Claim 12, wherein said channel is sloped in a direction generally perpendicular to the direction of the slope of the lower floor.

14. The facility of Claim 13, wherein said at least one vent duct is disposed above said channel.

15. The facility of Claim 14, wherein said at least one vent duct includes two vent ducts, each said vent duct disposed above and to opposite sides of said channel.

16. The facility of Claim 3, wherein said at least one vent duct is disposed below said lower floor and above the bottom of said channel, said vent openings extending between said at least one vent duct and said channel.

17. The facility of Claim 16, wherein said at least one vent duct includes two vent ducts, each said vent duct disposed above and to opposite sides of said channel.

18. The facility of Claim 16, wherein said lower floor includes a turbulator disposed adjacent to said channel.

19. The facility of Claim 3, wherein:
said at least one vent duct includes an inner duct and an outer duct, said inner duct disposed within said outer duct;
said inner duct having an intake duct extending above said upper floor; and
said vent openings disposed on said outer vent duct.

20. The facility of Claim 19, wherein said at least one vent duct is disposed above said channel.

21. The facility of Claim 19, wherein said means for removing said air and fumes include two vapor sensors, one vapor sensor disposed in said inner duct and the other vapor sensor disposed in said outer duct.